

a) a cylinder having a one open end and an other opposite open end;

b) a probe-puncturable membrane seal over the one end and the other end of the cylinder to form a sealed compartment; and

c) a reagent composition [for use in the detection of the test sample and sealed] within the sealed compartment, which composition consists essentially of and is selected from the group consisting of:

i) a detergent-containing buffered solution to release adenosine triphosphate (ATP) or alkaline phosphatase (AP) from the test sample into the solution for testing;

ii) a reaction stopping solution having a pH of 8 to 11; and

iii) a luciferin-luciferase or phosphatase substrate reagent [tablet].

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~~Claim 10 (Amended). The combination of claim 7 wherein the sealed compartment comprises the buffered-detergent solution and a luciferase and a luciferin reagent [in tablet form] at the bottom end of the test unit.~~

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Claim 14 (Amended). A test apparatus for the detection of adenosine triphosphate (ATP) or alkaline phosphatase (AP) in a test sample, by luminescence or color, which test apparatus comprises:

a) a longitudinal test apparatus housing having a one end and an other end;

b) a moveable probe within the housing to collect a test sample and arranged to puncture a membrane seal;

c) a transparent test unit having a one end and a closed bottom end extending from the one end of the housing for use in detecting luminescence or color in the test sample, and a first reagent [tablet] composition to detect adenosine triphosphate (ATP) or alkaline phosphatase (AP), by color or luminescence, at the closed bottom end; and

d) one or more unit dose reagent chambers longitudinally-positioned in the test unit, which reagent chamber comprises:

i) a cylinder having a one open end and an other opposite open end;

ii) a probe-puncturable membrane seal at and over the one end and the other end of the cylinder to form a sealed compartment; and

iii) a second reagent composition for use in the detection of adenosine triphosphate (ATP) or alkaline phosphatase (AP) in the test sample and sealed within the sealed compartment, which reagent composition comprises a buffered solution to release adenosine triphosphate (ATP) or alkaline

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phosphatase (AP) from the test sample into the solution for subsequent reaction with the first reagent [tablet] composition.

Claim 16 (Amended). The apparatus of claim 14 wherein the second reagent composition comprises a phosphoric acid and a detergent solution.

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Claim 19 (Amended). The apparatus of claim 14 wherein the sealed compartment comprises a buffer-detergent solution and a luciferase and a luciferin substrate, as a reagent [tablet], is at the bottom end of the test unit.

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Sub B4
~~Claim 21 (Amended). A transparent test unit for use in a test apparatus, for the detection of adenosine triphosphate (ATP) or alkaline phosphatase (AP), and which test unit comprises: a one open end; a closed bottom end; a probe-puncturable membrane over the one end; and the one end having threads for threadable attachment of the test unit to the test apparatus, and the test unit having one or more separate, longitudinally-aligned unit dose reagent chambers, which unit dose chamber comprises:~~

a) a cylinder having a one open end and an other opposite open end;

b) a probe-puncturable membrane seal over the one end and the other end of the cylinder to form a sealed compartment;

c) a reagent composition for use in the detection of adenosine triphosphate (ATP) or alkaline phosphatase (AP) in the test sample and sealed within the sealed compartment, which comprises a buffered solution to release adenosine triphosphate (ATP) or alkaline phosphatase (AP) from the test sample into the solution; and

d) a reagent [tablet] composition at the bottom end to detect the adenosine triphosphate (ATP) or alkaline phosphatase (AP) in the solution.

Claim 23 (Amended). The test unit of claim 21 wherein the test unit includes a luciferin-luciferase reagent [tablet].

Please add the following new claims:

Claim 24 (New). The apparatus of claim 14, wherein said luciferase and said luciferin reagent are in tablet form.

Claim 25 (New). The test unit of claim 21, wherein said reagent composition is in tablet form.

Claim 26 (New). The test unit of claim 23, wherein said luciferin-luciferase reagent is a luciferin-luciferase tablet.